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DATE MAILED: 03/26/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

30652 7590 03/26/2010 CONLEY ROSE, P.C.

5601 GRANITE PARKWAY, SUITE 750 PLANO, TX 75024

EXAMINER						
SEKUL, MARIA LYNN						
ART UNIT	PAPER NUMBER					

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFERMATION NO.

 10/576/520
 01/30/2007
 Pellong Tan
 4/202-0/2300
 3714

TITLE OF INVENTION; METHOD FOR DYNAMIC BANDWIDTH ALLOCATION IN PASSIVE OPTICAL NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/28/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees wi spondence address;	Il be mai and/or (b	iled to the current indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNI	EY DOCKET NO.	CONFIRMATION NO.
10/576,520 TITLE OF INVENTION	01/30/2007 : METHOD FOR DYN/	AMIC BANDWIDTH AL	Peilong Tan LOCATION IN PASSIVE	OPTICAL NETWO		02-02300	3714
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE T	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/28/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
SEKUL, MA	ARIA LYNN	2461	370-468000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON 2	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or tyr data will appear on the p T a substitute for filing an (B) RESIDENCE: CETY	3 registered patent vely, e firm (having as a regent) and the names meys or agents. If no printed.	attorneys member a s of up to o name is	2 3 diffied below, the do	ocument has been filed for
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regist	tered atto	rney or agent; or th	e assignee or other party in
Authorized Signature				Date			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/576,520	01/30/2007	Peilong Tan	4202-02300	3714		
30652	7590 03/26/2010		EXAM	IINER		
CONLEY ROSE, P.C. 5601 GRANITE PARKWAY, SUITE 750			SEKUL, MARIA LYNN			
			ART UNIT	PAPER NUMBER		
PLANO, TX 750	24	2461				
			DATE MAILED: 03/26/201	0		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 362 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 362 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/576,520 TAN ET AL. Notice of Allowability Examiner Art Unit MARIA I SEKUI 2461 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to Amendment of date 01/26/2010. The allowed claim(s) is/are 1-5,7-9,11-18,20 and 23-26. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) 🔯 All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes
and/or additions be unacceptable to applicant, an amendment may be filed as provided
by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be
submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Grant Rodolph on March 19, 2010.

The application has been amended as follows:

Claim 1, line 2, -- Optical Line Terminal (OLT) -- has replaced "OLT"; -- Optical

Network Units (ONUs) -- has replaced "ONUs"; and the word "to" has been deleted.

Claim 1, line 6, - - Multi-Point Control Protocol (MPCP) - - has replaced "MPCP".

Claim 1, line 7, - - Must Forwarding (MF) - - has replaced "MF".

Claim 1, line 9, "every" has been replaced with - - each - -.

Claim 1, line 17, "same" has been replaced with - - current - - .

Claim 1, line 22, "same" has been replaced with - - current - - .

Claim 3, line 2, - - ONU Identifier (ONUID) - - has replaced "ONUID".

Claim 23, line 2, the word "to" has been deleted.

Claim 23. line 6. "every" has been replaced with - - each - -.

Claim 23, line 10, "same" has been replaced with - - current - - .

Claim 25, line 2, the word "to" has been deleted.

Claim 25, line 6, "every" has been replaced with - - each - -.

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Claim 25, line 10, "same" has been replaced with - - current - - .

Claim 26, line 2, the word "to" has been deleted.

Claim 26, line 6, "every" has been replaced with - - each - -.

Claim 26, line 10, "same" has been replaced with - - current - - .

Response to Arguments

Applicant's arguments, see Remarks/Arguments, filed 01/26/2010, with respect
to amended claim 1, have been fully considered and are persuasive. The rejection of
claim 1 has been withdrawn.

Allowable Subject Matter

- Claims 1-5, 7-9, 11-18, 20 and 23-26 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Claims 1-5, 7-9, 11-18, 20 and 23-26 are allowable over the prior art because the prior art taken individually or in combination fails to particularly disclose, fairly suggest, or render obvious as argued by the Applicant which Examiner considers as persuasive:

A method for dynamic bandwidth allocation in a Passive Optical Network (PON), said PON includes an Optical Line Terminal (OLT) and a plurality of Optical Network Units (ONUs) accessing the OLT, comprising:

a) classifying, by the OLT, services which are to be communicated between the OLT and an ONU into a plurality of service types according to different transmitting requirements, and granting a different priority to each type of the services, said services being classified by priority in descending sequence as Expedited Forwarding (EF)

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service, automatic detecting Multi-Point Control Protocol (MPCP) message service, non-automatic detecting MPCP message service, Must Forwarding (MF) service, Assured Forwarding service and Best-Effort Forwarding service;

- b) authorizing, by the OLT, a service port of each type of services to transmit service data in descending sequence of said priorities of the services, and recording granting information of the service ports obtained from the authorization, the granting information of an EF service port comprising a start time of data transmission and the granting information of service ports carrying services among the automatic detecting MPCP message service, the non-automatic detecting MPCP message service, the MF service, the Assured Forwarding service and the Best-Effort Forwarding service not comprising the start time of data transmission;
- c) reading out, by the OLT, said granting information of every to-be-granted service port of the current ONU; and
- d) scheduling, by the OLT, start time of granted data transmission of every to-begranted service port of current ONU, generating a downlink granting message including both said granting information and said start time of granted data transmission of every granted port of said current ONU, allocating adjacent granted windows for service ports different from the EF service port of the current ONU when generating the downlink granting message, and transmitting said downlink granting messages to said current ONU.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARIA L. SEKUL whose telephone number is (571)270-7636. The examiner can normally be reached on Monday - Friday 9:00-5:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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MARIA L. SEKUL Examiner Art Unit 2461

/Huy D Vu/ Supervisory Patent Examiner, Art Unit 2461